

ABSTRACT

5 The invention relates to the recognition of digital finger prints, more particularly to recognition by an elongate bar of sensors able to detect crests and valleys of finger prints when a finger is passed in a relative manner in front of a sensor in an essentially  
10 parallel manner in relation to the direction of elongation of said bar. The inventive method comprises the following operations: successive partially overlapping images are acquired under the control of a processor; displacement of the first image in relation  
15 to a second image is examined in order to provide a better correlation between the two images; said displacement component is determined in terms of pixels in a perpendicular direction with respect to the elongate sensor; the displacement component is compared  
20 to at least one threshold; according to the result of the comparison, a delay  $T$  imposed by the processor before the acquisition of a following image is preserved, or increased or decreased by a time increment  $dT$ . As a result, the correlation search is  
25 adapted according to the speed, which is unknown, of displacement of the finger.